

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/281,792B

DATE: 05/18/2001  
 TIME: 13:11:23

Input Set : A:\36595160.app  
 Output Set: N:\CRF3\05182001\I281792B.raw

**ENTERED**

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:  
 6 (i) APPLICANT: Chandrasegaran, Srinivasan  
 8 (ii) TITLE OF INVENTION: METHODS FOR INACTIVATION TARGET DNA AND  
 9 FOR DETECTING CONFORMATIONAL CHANGE IN A NUCLEIC ACID  
 11 (iii) NUMBER OF SEQUENCES: 31  
 13 (iv) CORRESPONDENCE ADDRESS:  
 14 (A) ADDRESSEE: VENABLE, BAETJER, HOWARD & CIVILETTI, LLP  
 15 (B) STREET: 1201 New York Avenue, N.W., Suite 1000  
 16 (C) CITY: Washington  
 17 (D) STATE: DC  
 18 (E) COUNTRY: USA  
 19 (F) ZIP: 20005  
 21 (v) COMPUTER READABLE FORM:  
 22 (A) MEDIUM TYPE: Floppy disk  
 23 (B) COMPUTER: IBM PC compatible  
 24 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
 25 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30  
 27 (vi) CURRENT APPLICATION DATA:  
 C--> 28 (A) APPLICATION NUMBER: US/09/281,792B  
 C--> 29 (B) FILING DATE: 31-Mar-1999  
 30 (C) CLASSIFICATION:  
 32 (viii) ATTORNEY/AGENT INFORMATION:  
 33 (A) NAME: Hobbs, Ann S.  
 34 (B) REGISTRATION NUMBER: 36,830  
 35 (C) REFERENCE/DOCKET NUMBER: 36595160594  
 37 (ix) TELECOMMUNICATION INFORMATION:  
 38 (A) TELEPHONE: 202-962-4800  
 39 (B) TELEFAX: 202-962-8300  
 42 (2) INFORMATION FOR SEQ ID NO: 1:  
 44 (i) SEQUENCE CHARACTERISTICS:  
 45 (A) LENGTH: 23 amino acids  
 46 (B) TYPE: amino acid  
 47 (C) STRANDEDNESS:  
 48 (D) TOPOLOGY: linear  
 50 (ii) MOLECULE TYPE: peptide  
 55 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
 W--> 57 Tyr Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa Leu  
 58 1 5 10 15  
 W--> 60 Xaa Xaa His Xaa Xaa Xaa His  
 61 20  
 63 (2) INFORMATION FOR SEQ ID NO: 2:  
 65 (i) SEQUENCE CHARACTERISTICS:  
 66 (A) LENGTH: 24 amino acids  
 67 (B) TYPE: amino acid  
 68 (C) STRANDEDNESS:  
 69 (D) TOPOLOGY: linear

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71      (ii) MOLECULE TYPE: peptide
76      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
W--> 78      Tyr Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa Leu
79      1          5          10          15
W--> 81      Xaa Xaa His Xaa Xaa Xaa Xaa His
82      20
84 (2) INFORMATION FOR SEQ ID NO: 3:
86      (i) SEQUENCE CHARACTERISTICS:
87          (A) LENGTH: 25 amino acids
88          (B) TYPE: amino acid
89          (C) STRANDEDNESS:
90          (D) TOPOLOGY: linear
92      (ii) MOLECULE TYPE: peptide
97      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
W--> 99      Tyr Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa Leu
100     1          5          10          15
W--> 102     Xaa Xaa His Xaa Xaa Xaa Xaa Xaa His
103     20          25
105 (2) INFORMATION FOR SEQ ID NO: 4:
107     (i) SEQUENCE CHARACTERISTICS:
108         (A) LENGTH: 24 amino acids
109         (B) TYPE: amino acid
110         (C) STRANDEDNESS:
111         (D) TOPOLOGY: linear
113     (ii) MOLECULE TYPE: peptide
118     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
W--> 120     Tyr Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa
121     1          5          10          15
W--> 123     Leu Xaa Xaa His Xaa Xaa Xaa His
124     20
126 (2) INFORMATION FOR SEQ ID NO: 5:
128     (i) SEQUENCE CHARACTERISTICS:
129         (A) LENGTH: 25 amino acids
130         (B) TYPE: amino acid
131         (C) STRANDEDNESS:
132         (D) TOPOLOGY: linear
134     (ii) MOLECULE TYPE: peptide
139     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
W--> 141     Tyr Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa
142     1          5          10          15
W--> 144     Leu Xaa Xaa His Xaa Xaa Xaa Xaa His
145     20          25
147 (2) INFORMATION FOR SEQ ID NO: 6:
149     (i) SEQUENCE CHARACTERISTICS:
150         (A) LENGTH: 26 amino acids
151         (B) TYPE: amino acid
152         (C) STRANDEDNESS:
153         (D) TOPOLOGY: linear
155     (ii) MOLECULE TYPE: peptide

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160      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
W--> 162      Tyr Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa
163          1          5          10          15
W--> 165      Leu Xaa Xaa His Xaa Xaa Xaa Xaa Xaa His
166          20          25
168 (2) INFORMATION FOR SEQ ID NO: 7:
170      (i) SEQUENCE CHARACTERISTICS:
171          (A) LENGTH: 25 amino acids
172          (B) TYPE: amino acid
173          (C) STRANDEDNESS:
174          (D) TOPOLOGY: linear
176      (ii) MOLECULE TYPE: peptide
181      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
W--> 183      Tyr Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa
184          1          5          10          15
W--> 186      Xaa Leu Xaa Xaa His Xaa Xaa Xaa Xaa His
187          20          25
189 (2) INFORMATION FOR SEQ ID NO: 8:
191      (i) SEQUENCE CHARACTERISTICS:
192          (A) LENGTH: 26 amino acids
193          (B) TYPE: amino acid
194          (C) STRANDEDNESS:
195          (D) TOPOLOGY: linear
197      (ii) MOLECULE TYPE: peptide
202      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
W--> 204      Tyr Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa
205          1          5          10          15
W--> 207      Xaa Leu Xaa Xaa His Xaa Xaa Xaa Xaa His
208          20          25
210 (2) INFORMATION FOR SEQ ID NO: 9:
212      (i) SEQUENCE CHARACTERISTICS:
213          (A) LENGTH: 27 amino acids
214          (B) TYPE: amino acid
215          (C) STRANDEDNESS:
216          (D) TOPOLOGY: linear
218      (ii) MOLECULE TYPE: peptide
223      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
W--> 225      Tyr Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa
226          1          5          10          15
W--> 228      Xaa Leu Xaa Xaa His Xaa Xaa Xaa Xaa His
229          20          25
231 (2) INFORMATION FOR SEQ ID NO: 10:
233      (i) SEQUENCE CHARACTERISTICS:
234          (A) LENGTH: 23 amino acids
235          (B) TYPE: amino acid
236          (C) STRANDEDNESS:
237          (D) TOPOLOGY: linear
239      (ii) MOLECULE TYPE: peptide
244      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

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W--> 246   Phe Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa Leu
      247       1           5           10           15
W--> 249   Xaa Xaa His Xaa Xaa Xaa His
      250           20
      252 (2) INFORMATION FOR SEQ ID NO: 11:
      254   (i) SEQUENCE CHARACTERISTICS:
      255       (A) LENGTH: 24 amino acids
      256       (B) TYPE: amino acid
      257       (C) STRANDEDNESS:
      258       (D) TOPOLOGY: linear
      260   (ii) MOLECULE TYPE: peptide
      265   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
W--> 267   Phe Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa Leu
      268       1           5           10           15
W--> 270   Xaa Xaa His Xaa Xaa Xaa Xaa His
      271           20
      273 (2) INFORMATION FOR SEQ ID NO: 12:
      275   (i) SEQUENCE CHARACTERISTICS:
      276       (A) LENGTH: 25 amino acids
      277       (B) TYPE: amino acid
      278       (C) STRANDEDNESS:
      279       (D) TOPOLOGY: linear
      281   (ii) MOLECULE TYPE: peptide
      286   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
W--> 288   Phe Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa Leu
      289       1           5           10           15
W--> 291   Xaa Xaa His Xaa Xaa Xaa Xaa Xaa His
      292           20           25
      294 (2) INFORMATION FOR SEQ ID NO: 13:
      296   (i) SEQUENCE CHARACTERISTICS:
      297       (A) LENGTH: 24 amino acids
      298       (B) TYPE: amino acid
      299       (C) STRANDEDNESS:
      300       (D) TOPOLOGY: linear
      302   (ii) MOLECULE TYPE: peptide
      307   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
W--> 309   Phe Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa
      310       1           5           10           15
W--> 312   Leu Xaa Xaa His Xaa Xaa Xaa His
      313           20
      315 (2) INFORMATION FOR SEQ ID NO: 14:
      317   (i) SEQUENCE CHARACTERISTICS:
      318       (A) LENGTH: 25 amino acids
      319       (B) TYPE: amino acid
      320       (C) STRANDEDNESS:
      321       (D) TOPOLOGY: linear
      323   (ii) MOLECULE TYPE: peptide
      328   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
W--> 330   Phe Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa

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331      1          5          10          15
W--> 333      Leu Xaa Xaa His Xaa Xaa Xaa Xaa His
334              20          25
336 (2) INFORMATION FOR SEQ ID NO: 15:
338      (i) SEQUENCE CHARACTERISTICS:
339              (A) LENGTH: 26 amino acids
340              (B) TYPE: amino acid
341              (C) STRANDEDNESS:
342              (D) TOPOLOGY: linear
344      (ii) MOLECULE TYPE: peptide
349      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
W--> 351      Phe Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa
352      1          5          10          15
W--> 354      Leu Xaa Xaa His Xaa Xaa Xaa Xaa Xaa His
355              20          25
357 (2) INFORMATION FOR SEQ ID NO: 16:
359      (i) SEQUENCE CHARACTERISTICS:
360              (A) LENGTH: 25 amino acids
361              (B) TYPE: amino acid
362              (C) STRANDEDNESS:
363              (D) TOPOLOGY: linear
365      (ii) MOLECULE TYPE: peptide
370      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
W--> 372      Phe Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa
373      1          5          10          15
W--> 375      Xaa Leu Xaa Xaa His Xaa Xaa Xaa Xaa His
376              20          25
378 (2) INFORMATION FOR SEQ ID NO: 17:
380      (i) SEQUENCE CHARACTERISTICS:
381              (A) LENGTH: 26 amino acids
382              (B) TYPE: amino acid
383              (C) STRANDEDNESS:
384              (D) TOPOLOGY: linear
386      (ii) MOLECULE TYPE: peptide
391      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
W--> 393      Phe Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa
394      1          5          10          15
W--> 396      Xaa Leu Xaa Xaa His Xaa Xaa Xaa Xaa His
397              20          25
399 (2) INFORMATION FOR SEQ ID NO: 18:
401      (i) SEQUENCE CHARACTERISTICS:
402              (A) LENGTH: 27 amino acids
403              (B) TYPE: amino acid
404              (C) STRANDEDNESS:
405              (D) TOPOLOGY: linear
407      (ii) MOLECULE TYPE: peptide
412      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
W--> 414      Phe Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa
415      1          5          10          15

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## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/281,792B

DATE: 05/18/2001

TIME: 13:11:24

Input Set : A:\36595160.app

Output Set: N:\CRF3\05182001\I281792B.raw

L:28 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]  
L:29 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]  
L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:60 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:78 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:81 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:99 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:225 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:246 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:312 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:354 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18  
L:417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18